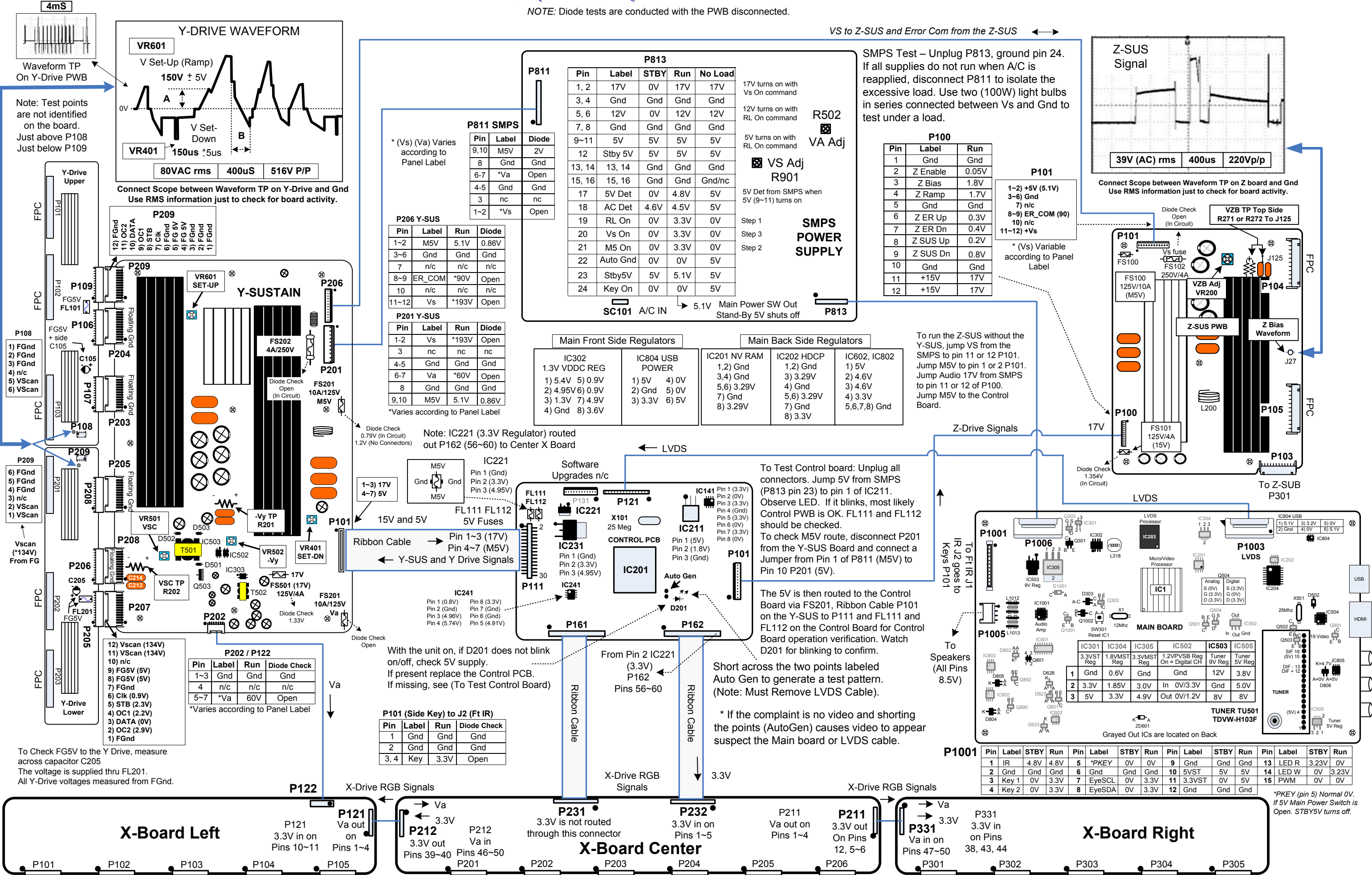


50PQ30 (50G2 Panel) CIRCUIT INTERCONNECT DIAGRAM

NOTE: Diode tests are conducted with the PWB disconnected.

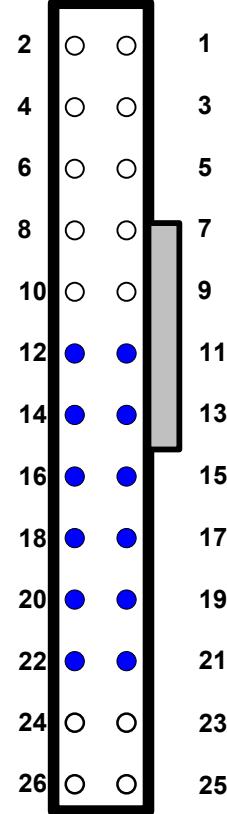




50PQ30 LVDS  
P1003  
WAVEFORMS

Connector P1003  
Configuration

● indicates  
signal pins.



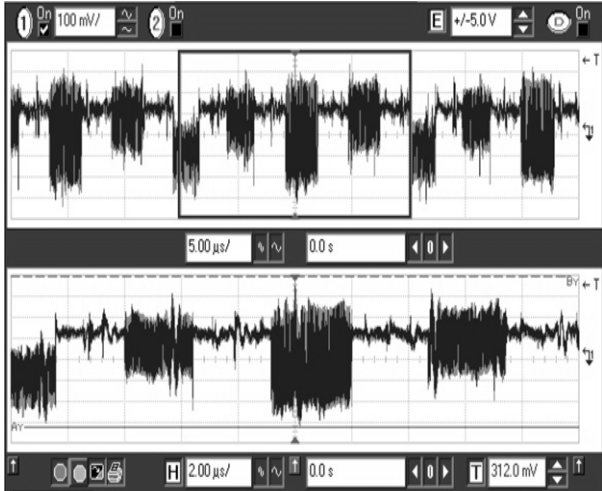
NOTE: LVDS P1003  
Information

There are actually 12 pins carrying Video 2 pins are carrying clock signals (17 and 18) to the Control board. With high activity video, pins 21 and 22 would have signals present.

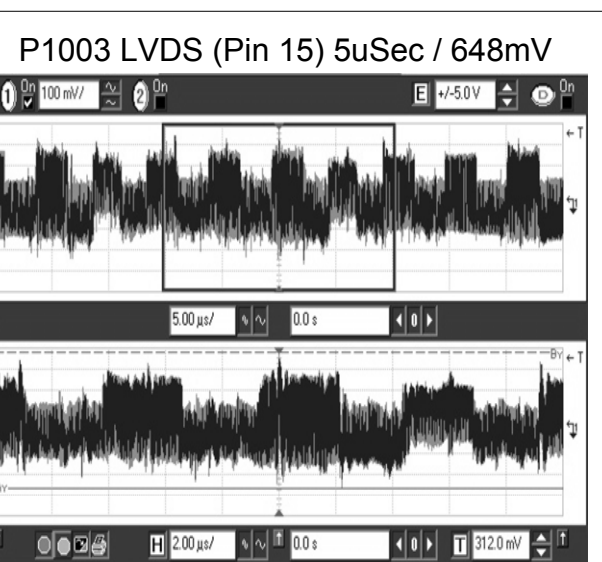
WAVEFORMS:

Waveforms taken using SMP Color Bar input. All readings give their Time Base related to scope settings. All waveforms taken from the P1003.

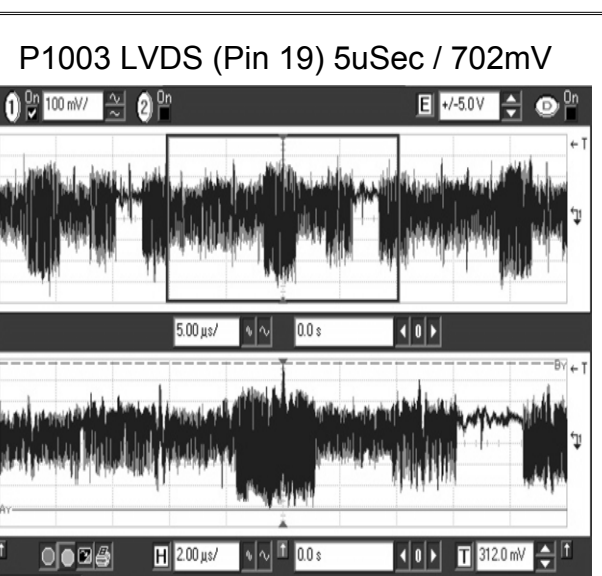
P1003 LVDS (Pin 11) 5uSec / 718mV



P1003 LVDS (Pin 11) 2uSec / 718mV



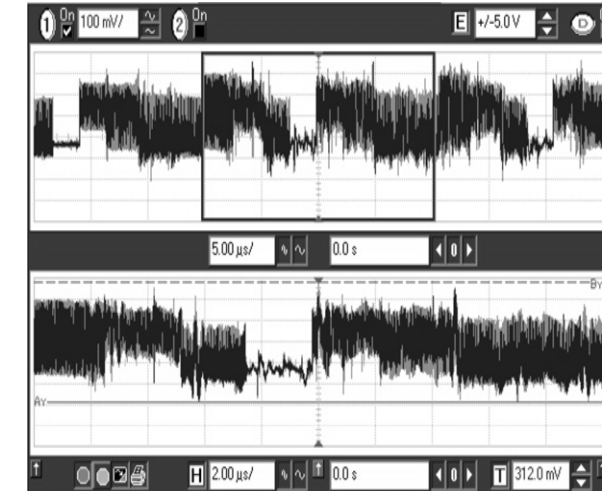
P1003 LVDS (Pin 15) 2uSec / 648mV



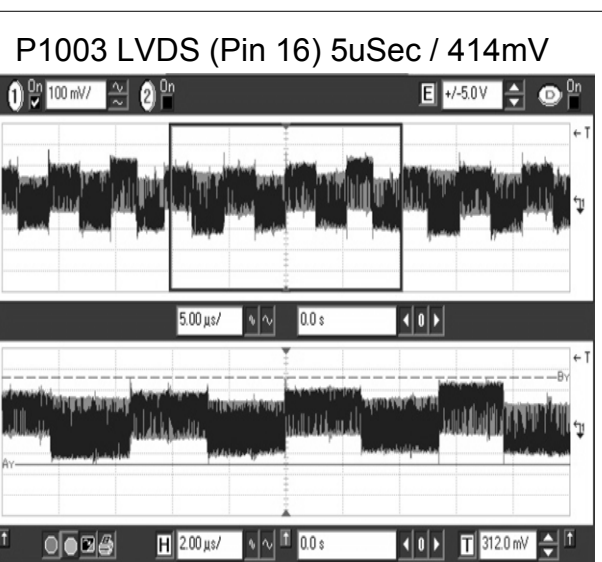
P1003 LVDS (Pin 19) 2uSec / 702mV



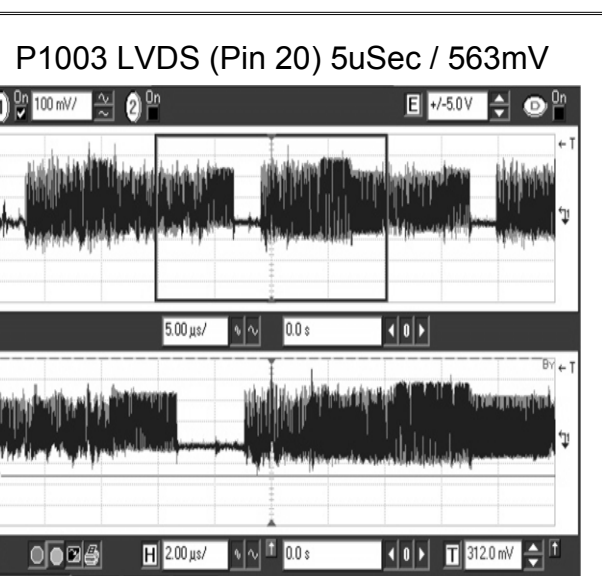
P1003 LVDS (Pin 12) 5uSec / 565mV



P1003 LVDS (Pin 12) 2uSec / 565mV



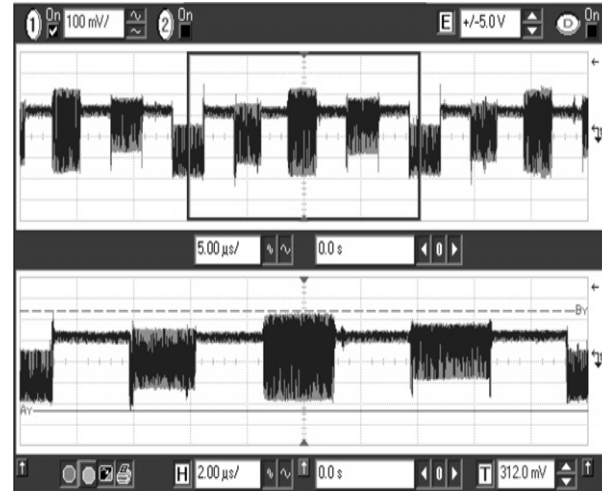
P1003 LVDS (Pin 16) 2uSec / 414mV



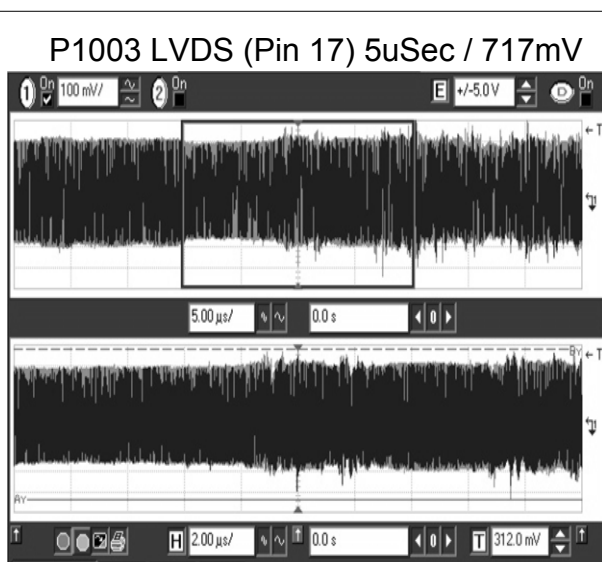
P1003 LVDS (Pin 20) 2uSec / 563mV



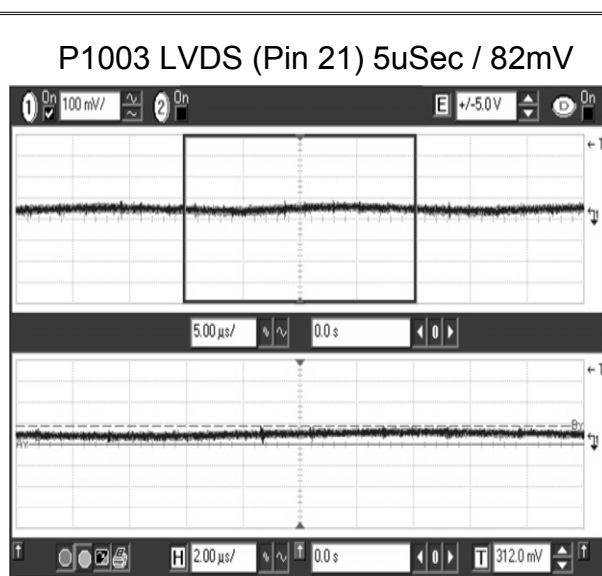
P1003 LVDS (Pin 13) 5uSec / 479mV



P1003 LVDS (Pin 13) 2uSec / 479mV



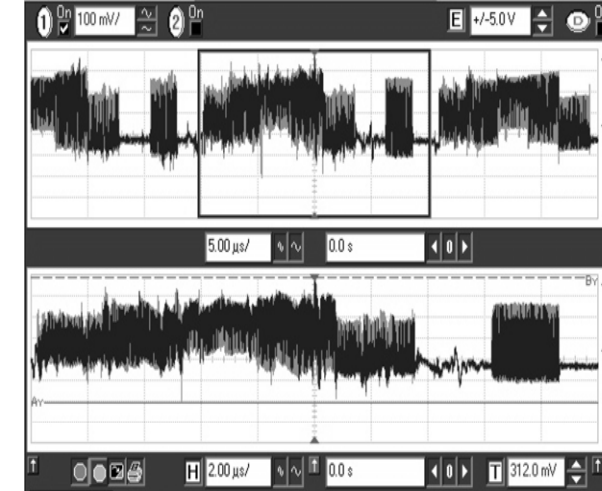
P1003 LVDS (Pin 17) 2uSec / 717mV



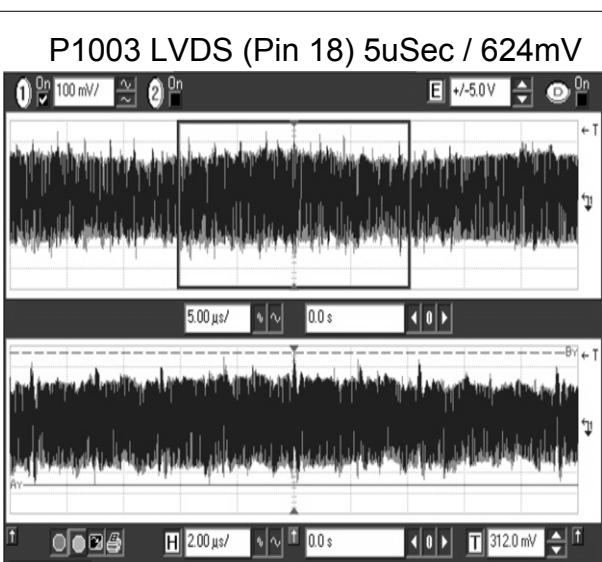
P1003 LVDS (Pin 21) 2uSec / 82mV



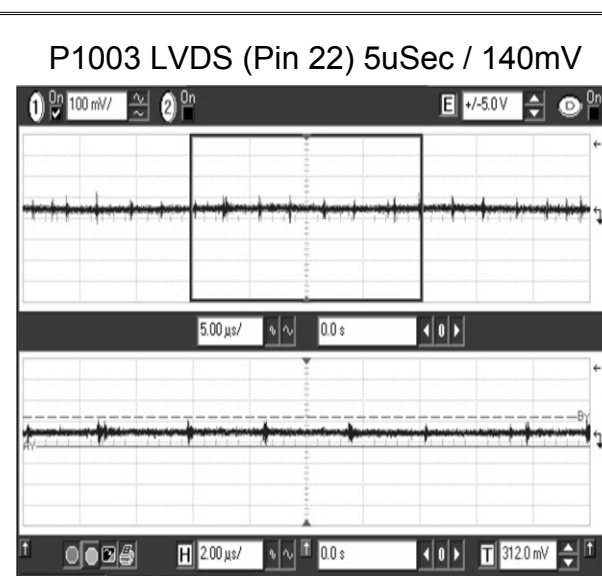
P1003 LVDS (Pin 14) 5uSec / 594mV



P1003 LVDS (Pin 14) 2uSec / 594mV



P1003 LVDS (Pin 18) 2uSec / 624mV

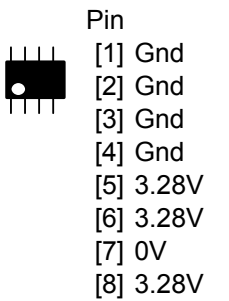


P1003 LVDS (Pin 22) 2uSec / 140mV

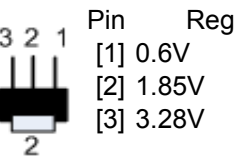


50PQ30 MAIN (BACK SIDE) SIMICONDUCTORS

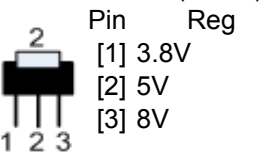
IC201 NVRAM



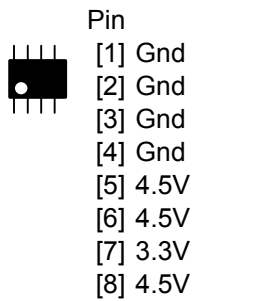
IC304 1.8VMST



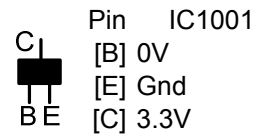
IC505 5V (Tuner)



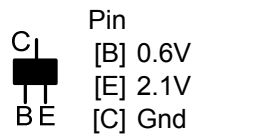
IC602 RS232 RAM



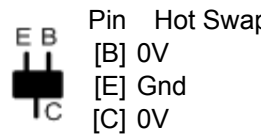
Q1001 Pow Down



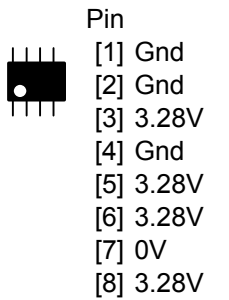
Q502 Video Buffer



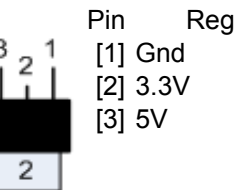
Q890/2 HDMI1/2



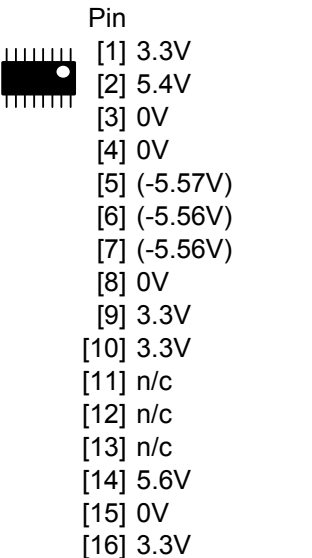
IC202 HDCP



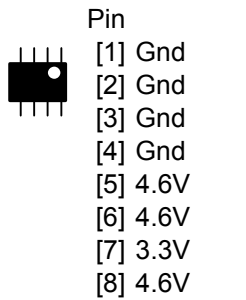
IC305 3.3VMST



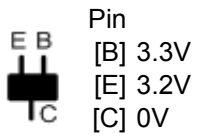
IC601 RS232 Control



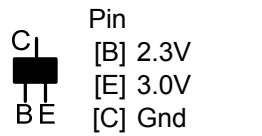
IC802/3 HDMI1/2



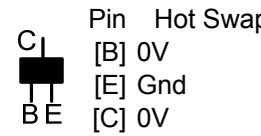
Q302 Reset



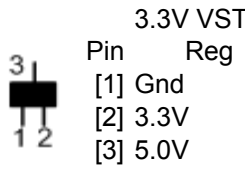
Q503 SIF Buffer



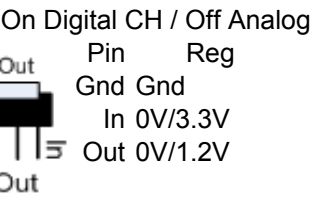
Q891 HDMI3/4



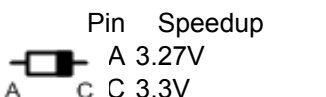
IC301 5VST to 3.3V VST



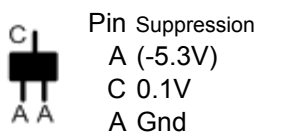
IC502 1.2V PVS



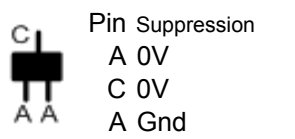
D1001 For IC1001 3.3V



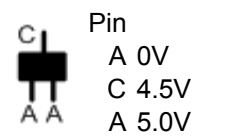
D627 RS232 TX Noise



D628 RS232 RX Noise

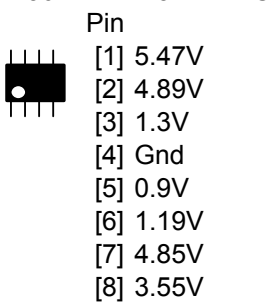


D633 RGB B+

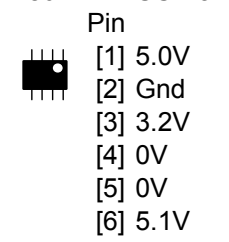


50PQ30 MAIN (FRONT SIDE) SIMICONDUCTORS

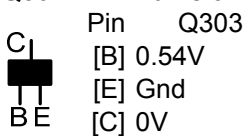
IC302 1.3V VDDC



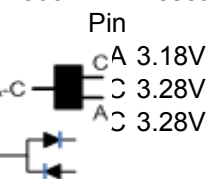
IC804 USB 5V



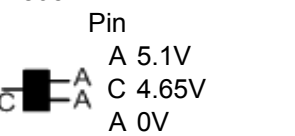
Q301 Turns on



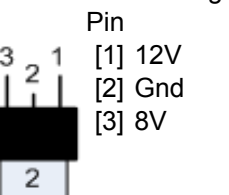
D303 Reset



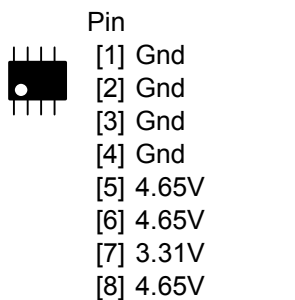
D805 HDMI2 PWR



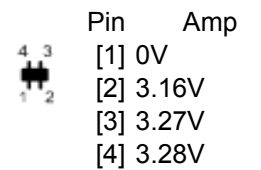
IC503 9V Reg



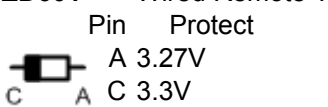
IC805 HDMI3 EDID



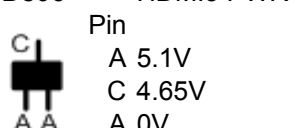
Q801 HDMI CEC



ZD601 Wired Remote T



D806 HDMI3 PWR



Q1002 Pow Down

